

2010 Post-Election Voting Survey of Active Duty Military Spouses

Statistical Methodology Report

Additional copies of this report may be obtained from:

Defense Technical Information Center

ATTN: DTIC-BRR

8725 John J. Kingman Rd., Suite #0944

Ft. Belvoir, VA 22060-6218

Or from:

http://www.dtic.mil/dtic/order.html

Ask for report by Report ID

2010 POST-ELECTION VOTING SURVEY OF ACTIVE DUTY MILITARY SPOUSES: STATISTICAL METHODOLOGY REPORT

Defense Manpower Data Center Human Resources Strategic Assessment Program 1600 Wilson Boulevard, Suite 400, Arlington, VA 22209-2593

Acknowledgments

Defense Manpower Data Center (DMDC) is indebted to numerous people for their assistance with the 2010 Post-Election Voting Survey of the Active Duty Military Spouses (2010 PEV7), which was conducted on behalf of the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD[P&R]). The survey program is conducted under the leadership of Timothy Elig, Director of the Human Resources Strategic Assessment Program (HRSAP).

Policy officials from the Federal Voting Assistance Program (FVAP) contributed to the development of this survey include Bob Carey, Director, Paul Drugan, Deputy Director for Research, and Alan White, Survey Specialist.

DMDC's Personnel Survey Branch, under the guidance of David McGrath, Branch Chief is responsible for the data processing, sampling, and weighting methods used in the Status of Forces and FVAP surveys program. Fawzi al Nassir, SRA International, Inc., supervised the sampling and weighting processes, and provided consultations and overall process control. The lead statistician was Owen Hung, SRA International, Inc., supported by Jeffrey Schneider and Phil Masui, DMDC who used the DMDC Sampling Tool to design the sample. They also developed weights for this survey. Susan Reinhold and Carole Massey, provided the data processing support. Fawzi Al Nassir, Jeffrey Schneider, and Phil Masui wrote this methodology report. Mary Padilla, SRA International, Inc., helped formatting this report.

2010 POST-ELECTION VOTING SURVEY OF ACTIVE DUTY MILITARY SPOUSES: STATISTICAL METHODOLOGY REPORT

Executive Summary

The Uniformed and Overseas Citizens Absentee Voting Act of 1986 (UOCAVA), 42 USC 1973ff, permits members of the Uniformed Services and Merchant Marine, and their eligible family members and all citizens residing outside the United States who are absent from the United States and its territories to vote in the general election for federal offices. These groups include:

- Members of the Uniformed Services (including Army, Navy, Air Force, Marine Corps, Coast Guard),
- U.S. citizens employed by the Federal Government residing outside the U.S., and
- All other private U.S. citizens residing outside the U.S.

The Federal Voting Assistance Program (FVAP), under the guidance of USD(P&R), is charged with implementing the UOCAVA and evaluating the effectiveness of its programs. The FVAP Office asked DMDC to design, administer, and analyze post-election surveys on Uniformed Services voter participation, overseas nonmilitary voter participation, and local election officials. Without such surveys, the Department will not be able to assess and improve voter access. In addition, such surveys fulfill 1988 Executive Order 12642 that names the Secretary of Defense as the "Presidential designee" for administering the UOCAVA and requires surveys to evaluate the effectiveness of the program in presidential election years.

The objectives of the 2010 post-election surveys are: (1) to gauge participation in the electoral process by citizens covered by UOCAVA, (2) to assess the impact of the FVAP's efforts to simplify and ease the process of voting absentee, (3) to evaluate other progress made to facilitate voting participation, and (4) to identify any remaining obstacles to voting by these citizens. Surveys were done of military members, federal civilian employees overseas, other U.S. citizens overseas, voting assistance personnel, and local election officials in the U.S.

This report focuses on the 2010 Post-Election Voting Survey of Active Duty Military Spouses (2010 PEV7), which was designed to capture the attitudes and behaviors of active duty military members spouses throughout the world. This report describes the sampling and weighting methodologies used in the 2010 PEV7. Calculation of response rates is described in the final section.

The population of interest for the 2010 PEV7 survey consisted of the spouses of eligible active duty members (1) who are members of the Army, Navy, Marine Corps, Air Force, and Coast Guard (2) who have at least 6 months of service at the time the questionnaire is first fielded, (3) who are U.S. citizens that are at least 18 years old, and (4) who are below flag rank at the time the invitation to participate is mailed.

The survey administration period lasted from December 20, 2010 to March 31, 2011. A sample of 50,132 active duty members was selected from the corresponding eligible populations of 799,606 active duty members. Based on updated personnel records and self-reported data, a total of 47,301 sample members were determined to be eligible for the survey. Usable questionnaires were returned by 6,491 members.

The 2010 PEV7 used a single-stage, stratified sample design. The allocation was nonproportional, with oversampling of small domains and population subgroups having low response rates. The total sample size was based on precision requirements for key reporting domains. The allocation was determined by an optimization algorithm that minimized the cost of the survey while meeting the precision requirements.

Analytic weights were created in five steps to account for unequal selection probabilities and varying response rates among population subgroups. First, sample records were classified for weighting according to eligibility status (known or unknown eligibility) then the sampling weights (i.e., the inverse of the selection probabilities) were calculated. Second, the sampling weights were adjusted to account for sample members whose eligibility could not be determined. Third, the eligibility-adjusted weights were again adjusted to account for eligible sample members who did not return usable questionnaires. Fourth, the adjusted weights were post-stratified to match population totals and to reduce bias unaccounted for by the previous weighting steps. Finally, sampling strata were collapsed to create strata for variance estimation by means of Taylor series linearization.

Location, completion, and response rates were calculated for the sample and for population subgroups after the field closed and data were received. These rates were computed according to the R3 recommendations of the American Association of Public Opinion Researchers (AAPOR, 2008). The overall location, completion, and response rates of active duty spouses were 92%, 15%, and 14% respectively.

Table of Contents

		<u>Page</u>
Intro	oduction	1
S	Sample Design and Selection	1
	Target Population	
	Sampling Frame	
	Sample Design.	
	Sample Allocation	
V	Weighting	
	Case Dispositions	
	Nonresponse Adjustments and Final Weights	
	Variance Estimation	
I	Location, Completion, and Response Rates	
	Ineligibility Rate	
	Estimated Ineligible Postal Non-Deliverable/Not Located Rate	
	Estimated Ineligible Nonresponse	
	Adjusted Location Rate	
	Adjusted Completion Rate	
	Adjusted Response Rate	
кете	Appendixes	15
A. Sa	Sample Allocation	17
B. A	Allocation Solution for Reporting Domains	25
	List of Tables	
1.	Variables for Stratification and Key Reporting Domains	3
2.	Sample Size by Stratification Variables	
3.	Case Dispositions for Weighting	5
4.	Sample Size by Case Disposition Categories	6
5.	Complete Eligible Respondents by Service and Location	
6.	Distribution of Weights and Adjustment Factors by Eligibility Status	
7.	Sum of Weights by Eligibility Status	
8.	Disposition Codes for CASRO Response Rates	
9.	Comparison of the Final Sample Relative to the Drawn Sample	
10.	Eligible Sample Location Rates, Response Rates, and Completion Rates	
11.	Rates for Full Sample and Stratification Level	

2010 POST-ELECTION VOTING SURVEY OF ACTIVE DUTY MILITARY SPOUSES: STATISTICAL METHODOLOGY REPORT

Introduction

The Uniformed and Overseas Citizens Absentee Voting Act of 1986 (UOCAVA), 42 USC 1973ff, permits members of the Uniformed Services and Merchant Marine, and their eligible family members and all citizens residing outside the United States who are absent from the United States and its territories to vote in the general election for federal offices. These groups include:

- Members of the Uniformed Services (including Army, Navy, Air Force, Marine Corps, Coast Guard),
- U.S. citizens employed by the Federal Government residing outside the U.S., and
- All other private U.S. citizens residing outside the U.S.

The Federal Voting Assistance Program (FVAP), under the guidance of USD(P&R), is charged with implementing the UOCAVA and evaluating the effectiveness of its programs. The FVAP Office asked DMDC to design, administer, and analyze post-election surveys on Uniformed Services voter participation, overseas nonmilitary voter participation, and local election officials. Without such surveys, the Department will not be able to assess and improve voter access. In addition, such surveys fulfill 1988 Executive Order 12642 that names the Secretary of Defense as the "Presidential designee" for administering the UOCAVA and requires surveys to evaluate the effectiveness of the program in presidential election years.

The objectives of the 2010 post-election surveys are: (1) to gauge participation in the electoral process by citizens covered by UOCAVA, (2) to assess the impact of the FVAP's efforts to simplify and ease the process of voting absentee, (3) to evaluate other progress made to facilitate voting participation, and (4) to identify any remaining obstacles to voting by these citizens. Surveys were done of military members, federal civilian employees overseas, other U.S. citizens overseas, voting assistance personnel, and local election officials in the U.S.

This report focuses on the 2010 Post-Election Voting Survey of Active Duty Military Spouses (2010 PEV7), which was designed to capture the attitudes and behaviors of active duty military members spouses throughout the world. This report describes the sampling and weighting methodologies used in the 2010 PEV7. Calculation of response rates is described in the final section.

Sample Design and Selection

Target Population

The target population for the active duty members of the 2010 PEV7 was designed to represent individuals meeting all of the following criteria:

- 1. An active duty member of the Army, Navy, Marine Corps, Air Force, and Coast Guard;
- 2. At least 6 months of service by the beginning of the survey fielding period;
- 3. Up to and including paygrade O6;
- 4. U.S. citizens;
- 5. At least 18 years old and married.

Fielding of the 2010 PEV7 survey began December 20, 2010 and ended on March 31, 2011.

Sampling Frame

The sampling frame was drawn from the *June 2010 Active Duty Master Edit File* (*ADMF*) and consist of 799,606 married active duty members. Auxiliary information used to develop the frame was obtained from the June 2010 Family Database, the April 2010 Basic Allowance for Housing Files and the July 2010 Contingency Tracking System (CTS) Deployment file. Additionally, to update a member's active duty status the July 2010 ADMF and the July 2010 Defense Enrollment Eligibility Reporting System (DEERS) Medical Point-in-Time Extracts (PITE) were used. Ineligible sample members were identified using the September 2010 ADMF and September 2010 DEERS PITE. Other individuals were identified as ineligible by self or proxy report due to divorce, separation, retirement, or incarceration, by the survey control system and during the survey fielding period, December 2010, through March 31, 2011.

Sample Design

The 2010 PEV7 sample used a single-stage stratified design. Five population characteristics defined the stratification dimensions for active duty members: Service, paygrade, race/ethnicity, age, and duty location. These are the first five variables displayed in Table 1 and are marked by an asterisk (*). The active duty frame was partitioned into 214 strata, produced by cross-classification of the stratification variables. Levels were collapsed within dimensions; occasionally, dimensions were collapsed, in reverse order as listed. Service and paygrade boundaries were preserved.

Within each stratum, individuals were selected with equal probability and without replacement. Since the allocation of the sample was not proportional to the size of the strata, selection probabilities varied among strata (i.e., individuals were not selected with equal probability overall). Nonproportional allocation was used to achieve adequate sample sizes for small subpopulations of analytic interest (i.e., the survey reporting domains). These domains included subpopulations defined by the stratification characteristics, as well as other key reporting domains. Key reporting domain variables are shown in Table 1.

Table 1. Variables for Stratification and Key Reporting Domains

Variable	Categories
Active Duty Service Branch*	Army
	Navy
	Marine corps
	Air Force
	Coast Guard
Paygrade Group *	E1-E4 / Unknown Enlisted
	E5-E9
	W1-W5
	O1-O3 / Unknown Officers
	O4-O6
Race/Ethnic Category *	Non-minority / Unknown
	Minority
Age *	18-24 years old
	25-29 years old
	30-34 years old
	35-44 years old
	45 years old or more
Duty Location 2*	US & US Territories, Other, Unknown
	Overseas
CONUS	CONUS
	OCONUS
Gender	Male
	Female

Note. * denotes stratification variable.

Sample Allocation

The 2010 PEV7 total sample size consisted of 50,312 active duty members. The sample was determined based on precision requirements for key reporting domains.

Given estimated variable survey costs and anticipated eligibility and response rates, an optimization algorithm determined the minimum-cost allocation that simultaneously satisfied the domain precision requirements. Estimated eligibility and response rates for the 2010 PEV7 sample were based on the 2008 Active Duty Spouse Survey. The allocation was accomplished by means of the DMDC Sample Planning Tool (SPT), Version 2.1 (Dever & Mason, 2003). This application is based on the method originally developed by J. R. Chromy (1987) and described in Mason, Wheeless, George, Dever, Riemer, and Elig (1995). The SPT defines domain variance equations in terms of unknown stratum sample sizes and user-specified precision constraints. A cost function is defined in terms of the unknown stratum sample sizes and the per-unit cost of data collection, editing, and processing. The variance equations are solved simultaneously, subject to the constraints imposed, for the sample size that minimizes the cost function. Eligibility rates modify the estimated prevalence rates used in the variance equations, thus affecting the allocation; response rates inflate the allocation, thus affecting the final sample size.

Although 43 active duty member domains were defined for the 2010 PEV7 allocation, precision constraints were imposed only on the domains of primary interest. Generally, the precision requirement was based on an estimated prevalence rate of 0.5 with a 95 percent confidence interval half-width no greater than 0.05. Constraints were manipulated to produce an allocation that achieved satisfactory precision for the domains of interest at an approximate sample size of 50,000.

Sample sizes by service component for the levels of the stratification dimensions for active duty members are shown in Table 2. Unknowns are grouped with the largest category of the variable. For example, if the paygrade for enlisted member is unknown and the largest enlisted category in the paygrade variable is E4, then the unknown is added to E4.

Table 2. Sample Size by Stratification Variables

Stratification Variable	Total	Army	Navy	Marine Corps	Air Force	Coast Guard
Total	50,132	18,910	8,478	6,709	10,425	5,610
Paygrade Group						
E1-E4	14,390	6,509	1,992	2,116	2,886	887
E5-E9	20,259	6,890	3,998	2,446	5,004	1,921
W1-W5	4,942	3,554	413	529	0	446
O1-O3	4,781	889	978	847	1,015	1,052
O4-O6	5,760	1,068	1,097	771	1,520	1,304
Race/Ethnicity						
Non-minority	32,644	11,614	4,588	4,586	7,425	4,431
Minority	17,488	7,296	3,890	2,123	3,000	1,179
Age						
18-24 years old	11,801	4,560	1,692	2,290	2,677	582
25-29 years old	10,915	4,137	1,865	1,481	2,317	1,115
30-34 years old	9,121	3,547	1,542	1,052	1,922	1,058
35-44 years old	12,708	4,385	2,438	1,638	2,119	2,128
45 years old and older	5,587	2,281	941	248	1,390	727
Region Hierarchical Collapsed						
U.S. & U.S. Territories, Other, Unknown	32,943	11,367	5,915	5,078	4,995	5,588
Overseas	17,189	7,543	2,563	1,631	5,430	22

Weighting

Analytical weights for the 2010 PEV7 were created to account for unequal probabilities of selection and varying response rates among population subgroups. Sampling weights were computed as the inverse of the selection probabilities. After determining case dispositions, the

base weights were adjusted for eligibility which was adjusted for completion to primarily account for nonresponse. The adjusted weights were poststratified to match population totals and to reduce bias unaccounted for by the previous weighting steps.

Case Dispositions

Case dispositions were assigned for weighting based on eligibility and completion of the survey. Execution of the weighting process and computation of response rates both depend on this classification.

Final case dispositions for weighting were determined using information from personnel records, field operations (the Survey Control System or SCS), and returned surveys. No single source of information is both complete and correct; inconsistencies among sources were resolved according to the order of precedence shown in Table 3.

Table 3.

Case Dispositions for Weighting

Case Disposition (Samp_DC)	Information Source	Conditions
Record ineligible	Personnel record	Sample ineligible—deceased or no address available in DEERS.
2. Ineligible by self- or proxyreport	Survey Control System (SCS)	"Retired," "No longer employed by DoD," or "Deceased."
3. Ineligible by survey self-report	First survey question	Active duty member retired or separated from military; or divorced
4. Eligible, complete response	Item response rate	Item response is at least 50%.
5. Eligible, incomplete response	Item response rate	Survey isn't blank but item response is less than 50%.
6. Unknown eligibility, complete response	Personnel record, first survey question, item response rate	Incomplete personnel record and first survey item is missing and item response is at least 50%;
7. Unknown eligibility, incomplete response	Personnel record, first survey question, and item response rate	Incomplete personnel record AND first survey question is missing AND return is not blank AND item response is less than 50%;
8. Active refusal	SCS	Reason refused is any
		Reason ineligible is "other"
		Reason survey is blank is "refused-too long", "refused-inappropriate/intrusive", "refused-other", "ineligible-other", "unreachable at this address", "refused by current resident", "concerned about security/confidentiality."
9. Blank return	SCS	No reason given.
10. PND	SCS	Postal non-deliverable or original non-locatable.
11. Non-respondent	Remainder	Remainder

This order is critical to resolving case dispositions. For example, suppose a sample person refused the survey with the reason that it was too long; in the absence of any other information the disposition would be "eligible nonrespondent." If a proxy report also indicated that this person had been hospitalized and was unable to complete the survey, the disposition would be "ineligible." Final case dispositions for the 2010 PEV7 are shown in Table 4. The total number of eligible complete responses by service and location is given in Table 5.

Table 4. Sample Size by Case Disposition Categories

Case Disposition Category and (Code Value)	Sample Size
Record ineligible	2,140
Ineligible by self- or proxy-report	51
Ineligible by survey self report	640
Eligible—complete response	6,491
Eligible—incomplete response	62
Active refusal–refused, deployed, other	374
Blank return	481
PND—postal non-deliverable	4,158
Non-respondents	35,735
Total	50,132

Table 5.

Complete Eligible Respondents by Service and Location

Service	U.S./U.S. Territories	Overseas	Total
Army	1,306	698	2,004
Navy	827	266	1,093
Marine Corps	622	182	804
Air Force	778	621	1,399
Coast Guard	1,183	8	1,191
Total	4,716	1,775	6,491

Nonresponse Adjustments and Final Weights

After case dispositions were resolved, the sampling weights were adjusted for nonresponse. First, the sampling weights for cases of known eligibility (Samp_DC = 2, 3, 4, or 5) were adjusted to account for cases of unknown eligibility (Samp_DC = 8, 9, 10, or 11). Next,

the eligibility-adjusted weights for eligible respondents (Samp_DC = 4) were adjusted to account for eligible sample members who had not returned a completed survey (Samp_DC = 5). Record ineligibles (Samp_DC = 1; sample members determined to be ineligible by the DEERS PITE match before survey administration) were excluded from the nonresponse adjustments.

Weighting adjustment factors for eligibility and completion were computed as the inverse of model-predicted probabilities. First, a logistic regression model was used to predict the probability of eligibility for the survey (known eligibility versus unknown eligibility). A second logistic regression model was used to predict the probability of response among eligible sample members (complete response versus incomplete). Chi-squared Automatic Interaction Detector (CHAID) was used to determine the best predictors for each logistic model. Both logistic models were weighted. The first model was weighted by the sampling weight, and the second model was weighted by the eligibility-adjusted weight.

Finally, the weights were poststratified to match population totals and to reduce bias unaccounted for by the previous weighting adjustments. Poststratification cells were defined by the cross-classification of service branch, paygrade, age, region and race. Within each poststratification cell, the nonresponse-adjusted weights for eligible respondents (Samp_DC = 4) and self-reported ineligibles (Samp_DC = 2, 3) were adjusted to match population counts. Final weights for Record ineligibles (Samp_DC = 1) were set to zero. Distributions of the sampling weights, intermediate weights, final weights, and adjustment factors by eligibility status are shown in Table 6. The sum of weights by eligibility status is presented in Table 7.

Table 6.
Distribution of Weights and Adjustment Factors by Eligibility Status

Eligibility Status	Statistic	Sampling Weight	Eligibility Status Adjusted Weight	Complete Eligible Response Adjusted Weight	Final Weight With Nonresponse and Post-strati- fication Factors	Eligibility Status Factor	Complete Eligible Response Factor	Post- strati- fication Factor
Eligible	N	6,491	6,491	6,491	6,491	6,491	6,491	6,491
Respondents	MIN	1	4.29	4.29	4.32	2.88	1	0.42
	MAX	50.03	518.99	518.99	538	18.22	1	2.33
	MEAN	15.26	105.52	105.52	111.57	6.49	1	1.06
	STD	14.80	116.71	116.71	124.47	3.56	0	0.16
	CV	0.97	1.11	1.11	1.12	0.55	0	0.15
Self/Proxy	N	691	691	691	691	691	0	691
Ineligibles	MIN	1	4.29	4.29	4.32	2.88		0.42
	MAX	50.03	477.15	477.15	538	18.22		2.33
	MEAN	14.49	101.90	101.90	109.14	6.79		1.10
	STD	14.00	106.72	106.72	114.37	3.23		0.19
	CV	0.97	1.05	1.05	1.05	0.48		0.17
Non-	N	40,810	40,810	40,810	40,810	40,810	62	0
Respondents	MIN	1	0	0	0	0	0	
	MAX	50.03	396.05	0	0	18.22	0	
	MEAN	16.02	0.18	0	0	0.01	0	
	STD	14.00	6.39	0	0	0.29	0	
	CV	0.87	34.76			28.50		
Record	N	2,140	2,140	2,140	2,140	0	0	0
Ineligibles	MIN	1	1	1	0			
	MAX	50.03	50.03	50.03	0			
	MEAN	17.18	17.18	17.18	0			
	STD	14.63	14.63	14.63	0			
	CV	0.85	0.85	0.85				

8

Table 7.
Sum of Weights by Eligibility Status

Eligibility Category	Sum of Sampling weights	Status Adjusted	Sum of Complete Eligible Response Adjusted Weights	Sum of Final Weights With Nonresponse and Poststratification Adjustments	
Eligible Respondents	99,048	684,928	684,928	724,194	
Self-Report/Proxy Ineligibles	10,014	70,416	70,416	75,412	
Nonrespondents	653,785	7,503	0	0	
Record Ineligible	36,759	36,759	36,759	0	
Total	799,606	799,606	792,103	799,606	

Variance Estimation

Analysis of the 2010 PEV7 data requires a variance estimation procedure that accounts for the complex sample design. The final step of the weighting process was to define strata for variance estimation by Taylor series linearization. The 2010 PEV7 variance estimation strata correspond closely to the design strata; however, it was necessary to collapse some sampling strata containing fewer than 25 cases with nonzero final weights into similar strata. A total of 102 variance estimation strata were defined for the 2010 PEV7.

Location, Completion, and Response Rates

Location, completion, and response rates were calculated in accordance with guidelines established by the Council of American Survey Research Organizations (CASRO). The procedure is based on recommendations for Sample Type II response rates (CASRO, 1982). This definition corresponds to The American Association for Public Opinion Research (AAPOR) RR3 (AAPOR, 2008), which estimates the proportion of eligibles among cases of unknown eligibility.

Location, completion, and response rates were computed for the 2010 PEV7 as follows:

The location rate (LR) is defined as

$$LR = \frac{\text{adjusted} \quad \text{located} \quad \text{sample}}{\text{adjusted} \quad \text{eligible} \quad \text{sample}} = \frac{N_L}{N_F}.$$

The *completion rate* (CR) is defined as

$$CR = \frac{\text{usable responses}}{\text{adjusted located sample}} = \frac{N_R}{N_L}.$$

The response rate (RR) is defined as

$$RR = \frac{\text{usable responses}}{\text{adjusted eligible sample}} = \frac{N_R}{N_E}.$$

where

- N_L = Adjusted located sample
- N_E = Adjusted eligible sample
- N_R = Usable responses.

To identify the cases that contribute to the components of LR, CR, and RR, the disposition codes were grouped as shown in Table 8. Record ineligibles were excluded from calculation of the eligibility rate.

Table 8.

Disposition Codes for CASRO Response Rates

Response Category	SAMP_DC Values
Eligible Sample	4, 5, 8, 9, 10, 11
Located Sample	4, 5, 8, 9, 11
Eligible Response	4
No Return	11
Eligibility Determined	2, 3, 4, 5, 8, 9
Self-Reported Ineligible	2, 3

Ineligibility Rate

The ineligibility rate (IR) is defined as:

$$IR = \frac{\text{self - reported ineligible cases}}{\text{eligible determined cases}}.$$

Estimated Ineligible Postal Non-Deliverable/Not Located Rate

The estimated ineligible postal non-deliverable or not located (IPNDR) is defined as:

IPNDR = **€***ligible Sample* − *Located Sample*
$$\ni$$
 IR.

Estimated Ineligible Nonresponse

The estimated ineligible nonresponse (EINR) is defined as:

$$EINR =$$
 \P ot returned \Rightarrow IR .

Adjusted Location Rate

The adjusted location rate (ALR) is defined as:

$$ALR = \frac{(Located Sample - EINR)}{(Eligible Sample - IPNDR - EINR)}.$$

Adjusted Completion Rate

The adjusted completion rate (ACR) is defined as:

$$ACR = \frac{(Eligible \ response)}{(Located \ Sample \ - EINR)}.$$

Adjusted Response Rate

The adjusted response rate (ARR) is defined as:

$$ARR = \frac{(Eligible \ response \)}{(Eligible \ Sample \ -IPNDR \ -EINR \)}.$$

Unweighted and weighted sample counts used to compute the overall response rates are shown in Table 9; weighted rates were computed using the sampling weights. The final response rate is the product of the location rate and the completion rate. Both weighted and unweighted location, completion, and response rates for the 2010 PEV7 survey are shown in Table 10. The final sample counts, usable response counts, sums of weights, eligibility adjusted rates, weighted location, weighted completion, and weighted response rates are shown in Table 11.

Table 9.

Comparison of the Final Sample Relative to the Drawn Sample

Case Disposition Categories	Sample C	ounts	Weighted I	Estimates
	n	%	n	%
Drawn sample & Population	50,132		799,606	
Ineligible on master files	-2,140	4.3	-36,759	4.6
Self-reported ineligible	-691	1.4	-10,014	1.3
Total: Ineligible	-2,831	5.7	-46,773	5.9
Eligible sample	47,301	94.4	752,833	94.2
Not located (estimated ineligible)	-355	0.7	-4717	0.6
Not located (estimated eligible)	-3,803	7.6	-53,473	6.7
Total not located	-4,158	8.3	-58,190	7.3
Located sample	43,143	86.1	694,644	86.9
Requested removal from survey mailings	-374	0.8	-6,217	0.8
Returned blank	-481	1.0	-7,208	0.9
Skipped key questions	-62	0.1	-1,043	0.1
Did not return a survey (estimated ineligible)	-3,049	6.1	-47,107	5.9
Did not return a survey (estimated eligible)	-32,686	65.2	-534,020	66.8
Total: Nonresponse	-36,652	73.1	-595,595	74.5
Usable responses	6,491	13.0	99,048	12.4

Table 10.
Eligible Sample Location Rates, Response Rates, and Completion Rates

Type of Rate	Computation	Observed Rates	Weighted Rates
Location	Adjusted located sample / Adjusted eligible sample	91%	92%
Completion	Usable responses / Adjusted located sample	16%	15%
Response	Usable responses / Adjusted eligible sample	15%	14%

12

Table 11.
Rates for Full Sample and Stratification Level

Domain	Label	Sample	Usable Responses	Sum of Weights	Eligible Adjusted Responses	Location Rate	Completion Rate	Response Rate
Sample	Sample	50,132	6,491	799,606	14.30 <u>+</u> 0.41	92.37%	15.30%	14.13%
Service	Army	18,910	2,004	317,876	12.63 <u>+</u> 0.66	90.33%	13.79%	12.46%
	Navy	8,478	1,093	169,145	15.09 <u>+</u> 0.91	92.73%	16.06%	14.89%
	Marine Corps	6,709	804	94,252	12.23 <u>+</u> 0.92	91.00%	13.30%	12.10%
	Air Force	10,425	1,399	193,311	16.58 <u>+</u> 0.93	95.48%	17.20%	16.42%
	Coast Guard	5,610	1,191	25,021	20.11 <u>+</u> 1.07	96.89%	20.59%	19.95%
Pay Group	E1-E4	14,390	940	216,674	7.88 <u>+</u> 0.55	85.76%	9.08%	7.79%
	E5-E9	20,259	2,280	415,593	13.81 <u>+</u> 0.61	94.01%	14.46%	13.60%
	W1-W5	4,942	856	17,567	19.46 <u>+</u> 0.96	96.10%	20.07%	19.29%
	O1-O3	4,781	974	73,151	21.26 <u>+</u> 1.53	95.89%	22.02%	21.12%
	O4-O6	5,760	1,441	76,621	26.89 <u>+</u> 1.69	97.75%	27.34%	26.72%
Gender	Male	44,347	5,834	704,814	14.41 <u>+</u> 0.44	92.69%	15.36%	14.24%
	Female	5,785	657	94,792	13.44 <u>+</u> 1.22	89.91%	14.78%	13.29%
Race/	Nonminority	32,644	4,715	541,480	15.15 ± 0.52	93.07%	16.12%	15.01%
Ethnicity	Minority	17,488	1,776	258,126	12.49 <u>+</u> 0.65	90.90%	13.51%	12.28%
Region	US & US territories	32,943	4,716	714,725	14.58 <u>+</u> 0.47	92.92%	15.52%	14.42%
	Overseas	17,189	1,775	84,881	11.94 <u>+</u> 0.57	87.83%	13.29%	11.68%
Age Group	18-24 Years Old	11,801	767	164,575	7.47 <u>+</u> 0.59	85.73%	8.64%	7.40%
	25-29 Years Old	10,915	1,067	207,650	11.59 <u>+</u> 0.73	91.29%	12.54%	11.45%
	30-34 Years Old	9,121	1,141	160,893	13.92 <u>+</u> 0.93	94.06%	14.64%	13.77%
	35-44 Years Old	12,708	2,199	221,706	19.37 <u>+</u> 0.95	96.18%	19.88%	19.13%
	45 Years Old or Older	5,587	1,317	44,782	28.53 ± 2.20	96.92%	29.17%	28.27%

13

References

- American Association for Public Opinion Research. (2008). *Standard definitions: Final dispositions of case codes and outcome rates for surveys.* Ann Arbor, MI: Author.
- Chromy, J. R. (1987). Design optimization with multiple objectives. In *Proceedings of the Section on Survey Research Methods, presented at the annual meeting of the American Statistical Association, San Francisco, CA, August 17-20, 1987* (pp. 194-199). Alexandria, VA: The Association.
- Council of American Survey Research Organizations. (1982). *On the definition of response rates: A special report of the CASRO Task Force on Completion Rates*, (Lester R Frankel, Chair). Port Jefferson, NY: Author.
- Dever, J. A., and Mason, R. E. (2003). *DMDC sample planning tool: Version 2.1*. Arlington, VA: DMDC.
- DMDC. (2009). November 2008 Post-Election Voting Survey of Uniformed Service Members: Tabulations of responses (Report No. 2009-044). Arlington, VA: Author.
- DMDC. (2009) November 2008 Post-Election Voting Survey of Uniformed Service Members: Administration, datasets, and codebook (Report No. 2009-045). Arlington, VA: Author.
- Mason, R. E., Wheeless, S. C., George, B. J., Dever, J. A., Riemer, R. A., and Elig, T. W. (1995). Sample allocation for the Status of the Armed Forces Surveys. In *Proceedings of the Section on Survey Research Methods, Volume II, American Statistical Association* (pp. 769-774). Alexandria, VA: The Association.

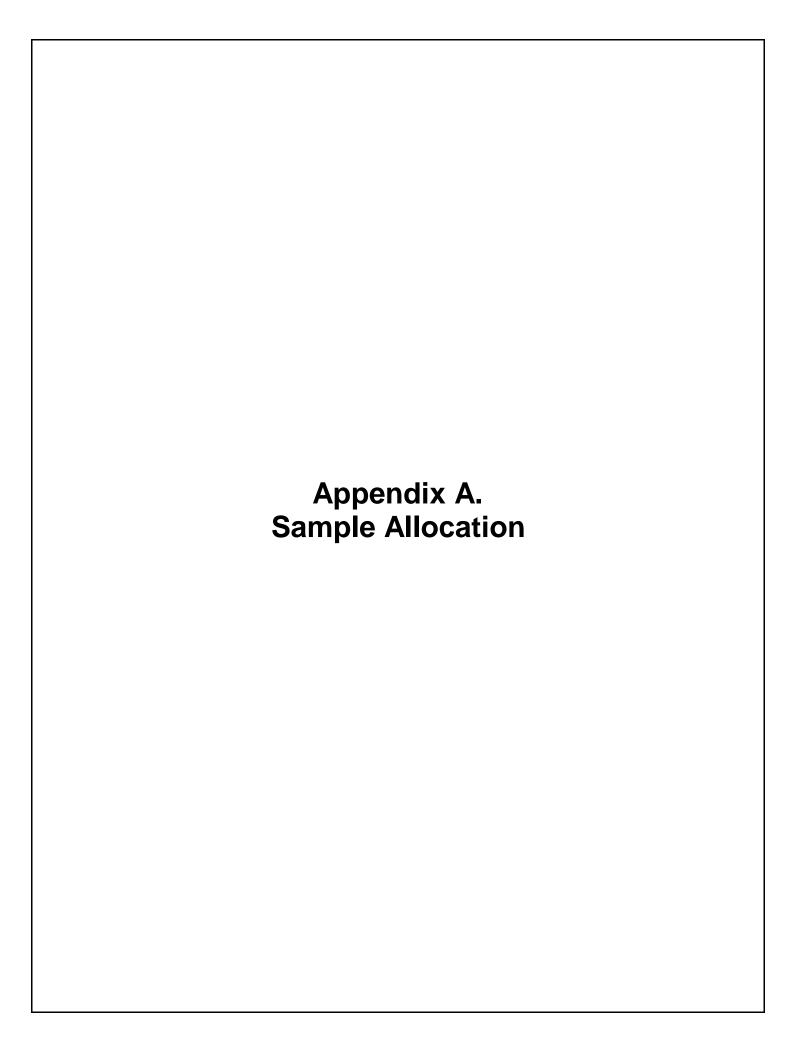


Table A1.
Sample Allocation

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
29,353	195	1,121	3.80	001 Army_E1-E4_NonM_18-24YO_US+TER
3,539	243			002 Army_E1-E4_NonM_18-24YO_OVRS_
19,057	125			003 Army_E1-E4_NonM_25-29YO_US+TER
2,324	70	357		004 Army_E1-E4_NonM_25-29YO_OVRS_
6,333	42	192	3.00	005 Army_E1-E4_NonM_30-34YO_US+TER
781	30	137	17.50	006 Army_E1-E4_NonM_30-34YO_OVRS_
3,927	27	108	2.80	007 Army_E1-E4_NonM_35+YO_US+TER
430	27	108	25.10	008 Army_E1-E4_NonM_35+YO_OVRS_
13,929	88	715	5.10	009 Army_E1-E4_Min18-24YO_US+TER
1,882	96	733	38.90	010 Army_E1-E4_Min18-24YO_OVRS_
9,724	62	425	4.40	011 Army_E1-E4_Min25-29YO_US+TER
1,336	40	272	20.40	012 Army_E1-E4_Min25-29YO_OVRS_
3,756	24	160	4.30	013 Army_E1-E4_Min30-34YO_US+TER
522	20	118	22.60	014 Army_E1-E4_Min30-34YO_OVRS_
2,293	16	85		015 Army_E1-E4_Min35+YO_US+TER
369	22	116	31.40	016 Army_E1-E4_Min35+YO_OVRS_
6,951	46		3.60	017 Army_E5-E9_NonM_18-24YO_US+TER
734	39		29.00	018 Army_E5-E9_NonM_18-24YO_OVRS_
24,872	165		2.70	019 Army_E5-E9_NonM_25-29YO_US+TER
2,752	85			020 Army_E5-E9_NonM_25-29YO_OVRS_
20,390	136			021 Army_E5-E9_NonM_30-34YO_US+TER
2,286	89			022 Army_E5-E9_NonM_30-34YO_OVRS_
26,739	182			023 Army_E5-E9_NonM_35-44YO_US+TER
2,978	66			024 Army_E5-E9_NonM_35-44YO_OVRS_
3,696	25			025 Army_E5-E9_NonM_44+YOUS+TER
447	87	447		026 Army_E5-E9_NonM_44+YOOVRS_
3,228	22	120		027 Army_E5-E9_Min18-24YO_US+TER
386	21	115		028 Army_E5-E9_Min18-24YO_OVRS_
13,337	87	463		029 Army_E5-E9_Min25-29YO_US+TER
1,963	59			030 Army_E5-E9_Min25-29YO_OVRS_
13,397	88			031 Army_E5-E9_Min30-34YO_US+TER
1,871	72	326		032 Army_E5-E9_Min30-34YO_OVRS_
20,624	139			033 Army_E5-E9_Min35-44YO_US+TER
2,916	64			034 Army_E5-E9_Min35-44YO_OVRS_
3,322	22			035 Army_E5-E9_Min44+YOUS+TER
528	103			036 Army_E5-E9_Min44+YOOVRS_
1,101	10			037 Army_O1-O3_NonM_18-24YO_US+TER
664	29			038 Army_O1-O3_NonM_18-29YO_OVRS_
6,493	54			039 Army_O1-O3_NonM_25-29YO_US+TER
5,665	47	122	2.20	040 Army_O1-O3_NonM_30-34YO_US+TER

19

Table A1. (continued)

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
521	21	54	10.40	041 Army_O1-O3_NonM_30-34YO_OVRS_
4,064	34	88	2.20	042 Army_O1-O3_NonM_35-44YO_US+TER
486	40	101	20.80	043 Army_O1-O3_NonM_35+YO_OVRS_
315	3	7	2.20	044 Army_O1-O3_NonM_44+YOUS+TER
1,632	14	44	2.70	045 Army_O1-O3_Min18-29YO_US+TER
183	8	25	13.70	046 Army_O1-O3_Min18-29YO_OVRS_
1,896	16	51	2.70	047 Army_O1-O3_Min30-34YO_US+TER
264	11	35	13.30	048 Army_O1-O3_Min30-34YO_OVRS_
2,161	18	58	2.70	049 Army_O1-O3_Min35+YO_US+TER
262	23	71	27.10	050 Army_O1-O3_Min35+YO_OVRS_
2,167	18	44	2.00	051 Army_O4-O6_NonM_25-34YO_US+TER
166	7	17	10.20	052 Army_O4-O6_NonM_25-34YO_OVRS_
11,407	95	228	2.00	053 Army_O4-O6_NonM_35-44YO_US+TER
1,371	32	76	5.50	054 Army_O4-O6_NonM_35-44YO_OVRS_
5,588	47	112	2.00	055 Army_O4-O6_NonM_44+YOUS+TER
738	149	355	48.10	056 Army_O4-O6_NonM_44+YOOVRS_
447	4	12	2.70	057 Army_O4-O6_Min30-34YO_US+TER
427	13	38	8.90	058 Army_O4-O6_Min29-44YO_OVRS_
2,795	24	70	2.50	059 Army_O4-O6_Min35-44YO_US+TER
1,268	11	26	2.10	060 Army_O4-O6_Min44+YOUS+TER
190	38		47.40	061 Army_O4-O6_Min44+YOOVRS_
10,733	71		3.60	062 Navy_E1-E4_NonM_18-24YO_US+TER
488	27	134	27.50	063 Navy_E1-E4_NonM_18-29YO_OVRS_
4,304	29	146	3.40	064 Navy_E1-E4_NonM_25-29YO_US+TER
1,095	16			065 Navy_E1-E4_NonM_30+YOAllRg
12,658	81			066 Navy_E1-E4_Min18-24YO_US+TER
486	25			067 Navy_E1-E4_Min18-24YO_OVRS_
5,461	35	246		068 Navy_E1-E4_Min25-29YO_US+TER
254	8			069 Navy_E1-E4_Min25-29YO_OVRS_
1,745	21			070 Navy_E1-E4_Min29-44YO_AllRg
3,658	24			071 Navy_E5-E9_NonM_18-24YO_US+TER
194	11			072 Navy_E5-E9_NonM_18-24YO_OVRS_
14,060	94			073 Navy_E5-E9_NonM_25-29YO_US+TER
926	28			074 Navy_E5-E9_NonM_25-29YO_OVRS_
13,439	90			075 Navy_E5-E9_NonM_30-34YO_US+TER
881	35			076 Navy_E5-E9_NonM_30-34YO_OVRS_
18,124	124			077 Navy_E5-E9_NonM_35-44YO_US+TER
1,497	144			078 Navy_E5-E9_NonM_35+YO_OVRS_
2,155	15			079 Navy_E5-E9_NonM_44+YOUS+TER
2,859	19			080 Navy_E5-E9_Min18-24YO_US+TER
1,090	45			081 Navy_E5-E9_Min18-29YO_OVRS_
10,148	66	-		082 Navy_E5-E9_Min25-29YO_US+TER
10,025	66	317	3.20	083 Navy_E5-E9_Min30-34YO_US+TER

Table A1. (continued)

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
1,137	44	210	18.50	084 Navy_E5-E9_Min30-34YO_OVRS_
12,893	87	364	2.80	085 Navy_E5-E9_Min35-44YO_US+TER
1,484	33	134	9.00	086 Navy_E5-E9_Min35-44YO_OVRS_
1,568	11	34	2.20	087 Navy_E5-E9_Min44+YOUS+TER
270	54	168	62.20	088 Navy_E5-E9_Min44+YOOVRS_
549	10	26	4.70	089 Navy_O1-O3_NonM_18-24YO_US+TER
233	10	26	11.20	090 Navy_O1-O3_NonM_18-29YO_OVRS_
3,878	69	178	4.60	091 Navy_O1-O3_NonM_25-29YO_US+TER
4,003	71	183	4.60	092 Navy_O1-O3_NonM_30-34YO_US+TER
265	12	30	11.30	093 Navy_O1-O3_NonM_30-34YO_OVRS_
3,329	61	154	4.60	094 Navy_O1-O3_NonM_35-44YO_US+TER
327	31	78	23.90	095 Navy_O1-O3_NonM_35+YO_OVRS_
269	5	15		096 Navy_O1-O3_NonM_44+YOUS+TER
2,098	47	158	7.50	097 Navy_O1-O3_Min18-34YO_AllRg
1,435	26	86	6.00	098 Navy_O1-O3_Min35+YO_US+TER
196	13		22.40	099 Navy_O1-O3_Min35+YO_OVRS_
1,369	25		4.40	100 Navy_O4-O6_NonM_30-34YO_US+TER
875	30	71	8.10	101 Navy_O4-O6_NonM_29-44YO_OVRS_
7,594	137	321	4.20	102 Navy_O4-O6_NonM_35-44YO_US+TER
4,384	79	188	4.30	103 Navy_O4-O6_NonM_44+YOUS+TER
401	82	195	48.60	104 Navy_O4-O6_NonM_44+YOOVRS_
2,537	45			105 Navy_O4-O6_Min30+YOUS+TER
303	42			106 Navy_O4-O6_Min30+YOOVRS_
20,452	174			107 MCE1-E4_NonM_18-24YO_US+TER
922	49	266	28.90	108 MCE1-E4_NonM_18-24YO_OVRS_
4,381	37	193	4.40	109 MCE1-E4_NonM_25-29YO_US+TER
348	12		19.30	110 MCE1-E4_All25-34YO_OVRS_
584	5		4.30	111 MCE1-E4_All29-44YO_US+TER
6,900	58			112 MCE1-E4_Min18-24YO_US+TER
419	22			113 MCE1-E4_Min18-24YO_OVRS_
1,566	13			114 MCE1-E4_Min25-29YO_US+TER
4,367	37			115 MCE5-E9_NonM_18-24YO_US+TER
247	13			116 MCE5-E9_NonM_18-24YO_OVRS_
10,396	88			117 MCE5-E9_NonM_25-29YO_US+TER
715	23			118 MCE5-E9_NonM_25-29YO_OVRS_
6,019	51			119 MCE5-E9_NonM_30-34YO_US+TER
521	21	77		120 MCE5-E9_NonM_30-34YO_OVRS_
5,287	46			121 MCE5-E9_NonM_35-44YO_US+TER
650	57	184		122 MCE5-E9_NonM_35+YO_OVRS_
502	5			123 MCE5-E9_NonM_44+YOUS+TER
1,634	14			124 MCE5-E9_Min18-24YO_US+TER
576	26			125 MCE5-E9_Min18-29YO_OVRS_
4,995	42	223	4.50	126 MCE5-E9_Min25-29YO_US+TER

Table A1. (continued)

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
3,589	30	142	4.00	127 MCE5-E9_Min30-34YO_US+TER
488	19	88	18.00	128 MCE5-E9_Min30-34YO_OVRS_
3,405	30	122	3.60	129 MCE5-E9_Min35-44YO_US+TER
582	45	181	31.10	130 MCE5-E9_Min35+YO_OVRS_
348	4	13	3.70	131 MCE5-E9_Min44+YOUS+TER
392	18	55	14.00	132 MCO1-O3_NonM_18-24YO_US+TER
2,154	96	237	11.00	133 MCO1-O3_NonM_25-29YO_US+TER
1,913	85	221	11.60	134 MCO1-O3_NonM_30-34YO_US+TER
814	37	105	12.90	135 MCO1-O3_NonM_35+YO_US+TER
384	17	52	13.50	136 MCO1-O3_Min18-29YO_US+TER
506	32	86	17.00	137 MCO1-O3_All18-44YO_OVRS_
659	29	91	13.80	138 MCO1-O3_Min30+YOUS+TER
324	15	37	11.40	139 MCO4-O6_NonM_30-34YO_US+TER
481	64	154	32.00	140 MCO4-O6_NonM_30+YO_OVRS_
3,193	144	349	10.90	141 MCO4-O6_NonM_35-44YO_US+TER
787	35	83	10.50	142 MCO4-O6_NonM_44+YO_US+TER
872	50	148	17.00	143 MCO4-O6_Min30+YOAllRg
18,100	118	663	3.70	144 AFE1-E4_NonM_18-24YO_US+TER
2,974	155	886	29.80	145 AFE1-E4_NonM_18-24YO_OVRS_
7,655	51	250	3.30	146 AFE1-E4_NonM_25-44YO_US+TER
1,402	47	226	16.10	147 AFE1-E4_NonM_25-44YO_OVRS_
5,461	35	257	4.70	148 AFE1-E4_Min18-24YO_US+TER
977	50	368	37.70	149 AFE1-E4_Min18-24YO_OVRS_
2,276	15	93	4.10	150 AFE1-E4_Min25-29YO_US+TER
563	17	102	18.10	151 AFE1-E4_Min25-29YO_OVRS_
273	6	41	15.00	152 AFE1-E4_Min29-44YO_AllRg
2,648	17	125	4.70	153 AFE5-E9_NonM_18-24YO_US+TER
560	29	213	38.00	154 AFE5-E9_NonM_18-24YO_OVRS_
17,452	117	445	2.50	155 AFE5-E9_NonM_25-29YO_US+TER
3,811	118	434	11.40	156 AFE5-E9_NonM_25-29YO_OVRS_
16,909	114	383	2.30	157 AFE5-E9_NonM_30-34YO_US+TER
3,919	154	512	13.10	158 AFE5-E9_NonM_30-34YO_OVRS_
23,909	164	498	2.10	159 AFE5-E9_NonM_35-44YO_US+TER
4,656	103	308	6.60	160 AFE5-E9_NonM_35-44YO_OVRS_
3,056	21	69	2.30	161 AFE5-E9_NonM_44+YOUS+TER
525	105	345	65.70	162 AFE5-E9_NonM_44+YOOVRS_
706	5	36	5.10	163 AFE5-E9_Min18-24YO_US+TER
221	12	86	38.90	164 AFE5-E9_Min18-24YO_OVRS_
6,716	44	211	3.10	165 AFE5-E9_Min25-29YO_US+TER
1,904	58	266	14.00	166 AFE5-E9_Min25-29YO_OVRS_
6,844	46	187	2.70	167 AFE5-E9_Min30-34YO_US+TER
2,054	80	320		168 AFE5-E9_Min30-34YO_OVRS_
7,842	53	192	2.40	169 AFE5-E9_Min35-44YO_US+TER

Table A1. (continued)

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
2,129	47	167	7.80	170 AFE5-E9_Min35-44YO_OVRS_
1,170	8	26	2.20	171 AFE5-E9_Min44+YOUS+TER
276	55	181	65.60	172 AFE5-E9_Min44+YOOVRS_
1,031	15	36	3.50	173 AFO1-O3_NonM_18-24YO_US+TER
710	29	69	9.70	174 AFO1-O3_NonM_18-29YO_OVRS_
6,484	89	216	3.30	175 AFO1-O3_NonM_25-29YO_US+TER
5,536	76	186	3.40	176 AFO1-O3_NonM_30-34YO_US+TER
674	28	68	10.10	177 AFO1-O3_NonM_30-34YO_OVRS_
3,783	53	130	3.40	178 AFO1-O3_NonM_35+YO_US+TER
499	40	97	19.40	179 AFO1-O3_NonM_35+YO_OVRS_
863	12	34	3.90	180 AFO1-O3_Min18-29YO_US+TER
220	11	31	14.10	181 AFO1-O3_Min18-34YO_OVRS_
845	12	35	4.10	182 AFO1-O3_Min30-34YO_US+TER
1,058	39	113	10.70	183 AFO1-O3_Min35+YO_AllRg
2,523	35	81	3.20	184 AFO4-O6_NonM_30-34YO_US+TER
330	14	32	9.70	185 AFO4-O6_NonM_30-34YO_OVRS_
11,730	162	369		186 AFO4-O6_NonM_35-44YO_US+TER
1,586	41	93	5.90	187 AFO4-O6_NonM_35-44YO_OVRS_
4,763	64	229	4.80	188 AFO4-O6_NonM_44+YOUS+TER
655	129	462	70.50	189 AFO4-O6_NonM_44+YOOVRS_
351	5	13	3.70	190 AFO4-O6_Min30-34YO_US+TER
374	47	135	36.10	191 AFO4-O6_Min30+YOOVRS_
1,692	23	74	4.40	192 AFO4-O6_Min35-44YO_US+TER
616	9	32		193 AFO4-O6_Min44+YOUS+TER
1,514	54	283	18.70	194 CGE1-E4_NonM_18-24YO_US+TER
1,225	44	203	16.60	195 CGE1-E4_NonM_25-29YO_US+TER
269	10	41	15.20	196 CGE1-E4_NonM_30+YOUS+TER
762	28	179	23.50	197 CGE1-E4_Min18-24YO_US+TER
673	24	140		198 CGE1-E4_Min25-29YO_US+TER
199	8	41		199 CGE1-E4_Min29-44YO_US+TER
423	16	59	13.90	200 CGE5-E9_NonM_18-24YO_US+TER
3,037	110			201 CGE5-E9_NonM_25-29YO_US+TER
3,236	119	365	11.30	202 CGE5-E9_NonM_30-34YO_AllRg
3,433	123			203 CGE5-E9_NonM_35-44YO_US+TER
793	30			204 CGE5-E9_NonM_44+YOUS+TER
1,036	38			205 CGE5-E9_Min18-29YO_US+TER
966	36			206 CGE5-E9_Min30-34YO_AllRg
1,022	38			207 CGE5-E9_Min35-44YO_AllRg
194	8			208 CGE5-E9_Min44+YOUS+TER
1,231	215	519	42.20	209 CGO1-O3_NonM_18-34YO_AllRg
687	119			210 CGO1-O3_NonM_35+YO_AllRg
419	74	167	39.90	211 CGO1-O3_MinAllAllRg
1,979	347	1,141	57.70	212 CGO4-O6_NonM_30+YOAllRg

Table A1. (continued)

Stratum Size	Allocation Size	Sample Size	Pct Sampled	Label
338	60	163	48.20	213 CGO4-O6_Min30+YOAllRg
17,567	1,438	4,942	28.10	214 All Warrant Officers

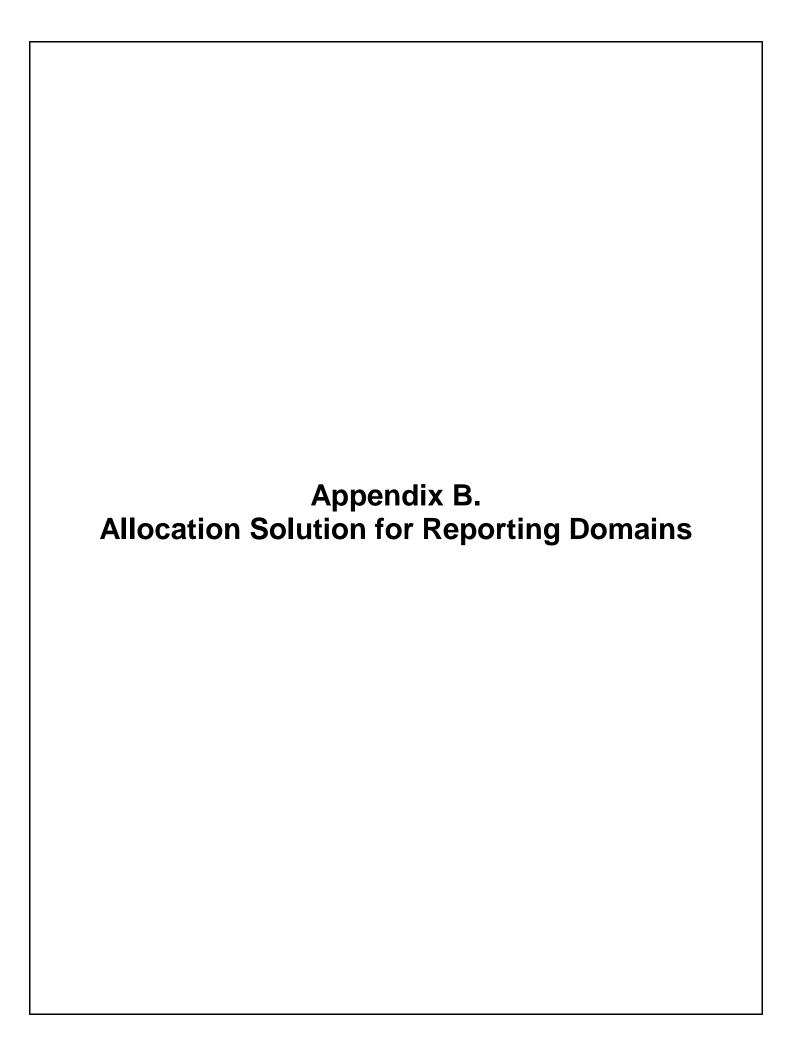


Table B1.
Allocation Solution for Reporting Domains

Domain	Label	Population	HWCI	Allocation	Estimated n	Pct Sampled	Design Effect
1	All Domains	799,606	0.01	12,847	49,290	6.27	1.91
2	Army	317,997	0.02	4,534	18,590	5.96	1.87
3	Navy	169,144	0.03	2,218	8,351	5.01	1.63
4	Marine Corps	94,200	0.03	1,693	6,553	7.11	1.81
5	Air Force	193,311	0.02	2,777	10,281	5.39	1.66
6	Coast Guard	24,954	0.03	1,625	5,520	22.41	1.47
7	Enlisted	632,267	0.01	7,478	34,048	5.48	1.57
8	Officer	167,339	0.02	5,369	15,255	9.25	2.15
9	E1-E4/Unkn	216,674	0.02	2,472	14,056	6.64	1.55
10	E5-E9	415,593	0.02	5,006	19,970	4.87	1.58
11	W1-W5	17,567	0.03	1,438	4,878	28.13	0.94
12	O1-O3	73,151	0.03	1,809	4,717	6.54	1.80
13	O4-O6	76,621	0.03	2,122	5,666	7.52	2.06
14	Non-Hispanic White/Unk	541,344	0.01	9,044	32,013	6.02	1.94
15	Minority	258,262	0.02	3,803	17,281	6.79	1.85
16	US & Territories	714,885	0.01	8,628	32,430	4.61	1.57
17	Overseas	84,721	0.02	4,219	16,756	20.28	1.39
18	CONUS	656,031	0.01	7,860	29,537	4.57	1.68
19	OCONUS	143,406	0.03	4,984	19,681	14.02	3.97
20	Army*Enlisted	252,972	0.02	2,724	13,135	5.30	1.52
21	Army*Officer	65,025	0.04	1,810	5,463	8.53	2.58
22	Navy*Enlisted	133,632	0.03	1,303	5,903	4.48	1.40
23	Navy*Officer	35,512	0.04	915	2,446	7.01	1.33
24	Marine Corps*Enlisted	79,893	0.04	921	4,459	5.71	1.33
25	Marine Corps*Officer	14,307	0.04	772	2,104	14.90	1.12
26	Air Force*Enlisted	146,988	0.03	1,844	7,781	5.37	1.64

27

Table B1. (continued)

Domain	Label	Population	HWCI	Allocation	Estimated n	Pct Sampled	Design Effect
	Air	_				_	
27	Force*Officer	46,323	0.04	933	2,500	5.47	1.35
	Coast						
28	Guard*Enlisted	18,782	0.04	686	2,774	14.95	0.99
29	Coast Guard*Officer	6,172	0.04	939	2,742	45.09	1.37
30	Male	706,172	0.01	11,477	43,659	6.29	2.14
31	Female	93,434	0.05	1,370	5,631	6.13	3.28
31	US*18-24	73,434	0.03	1,370	3,031	0.13	3.20
32	Years Old	150,182	0.03	1,189	6,869	4.69	1.16
	US*25-29	100,102	0.00	1,105	3,003		1110
33	Years Old	185,885	0.03	1,853	7,557	4.11	1.36
	US*30-34			,	. , :		
34	Years Old	142,320	0.03	1,839	6,232	4.42	1.63
	US*34-44						
35	Years Old	196,774	0.02	2,969	9,292	4.82	1.83
	US*45+ Years						
36	Old	39,724	0.05	777	2,468	6.32	2.07
	Overseas*18-24						
37	Years Old	14,419	0.04	807	4,394	33.02	1.17
	Overseas*25-29						
38	Years Old	21,760	0.04	726	3,261	15.13	1.05
•	Overseas*30-34	10.151					
39	Years Old	18,151	0.04	746	2,741	15.22	1.08
40	Overseas*34-44	25.207	0.04	1.025	2 211	12.05	1 40
40	Years Old	25,307	0.04	1,035	3,211	12.95	1.49
41	Overseas*45+ Years Old	5,084	0.04	905	2 029	60.66	1.32
		, and the second			3,028	60.66	
42	Coast Guard	24,954	0.03	1,625	5,520	22.41	1.47
43	Total DOD	774,652	0.01	11,222	43,787	5.75	1.77

This page is reserved for insertion of Standard Form 298, page 1 -- this is best accomplished by replacing this page after the document has been converted to PDF

This page is reserved for insertion of Standard Form 298, page 2 -- this is best accomplished by replacing this page after the document has been converted to PDF

